

CAPCA Fall Meeting

October 24 - 26, 2001



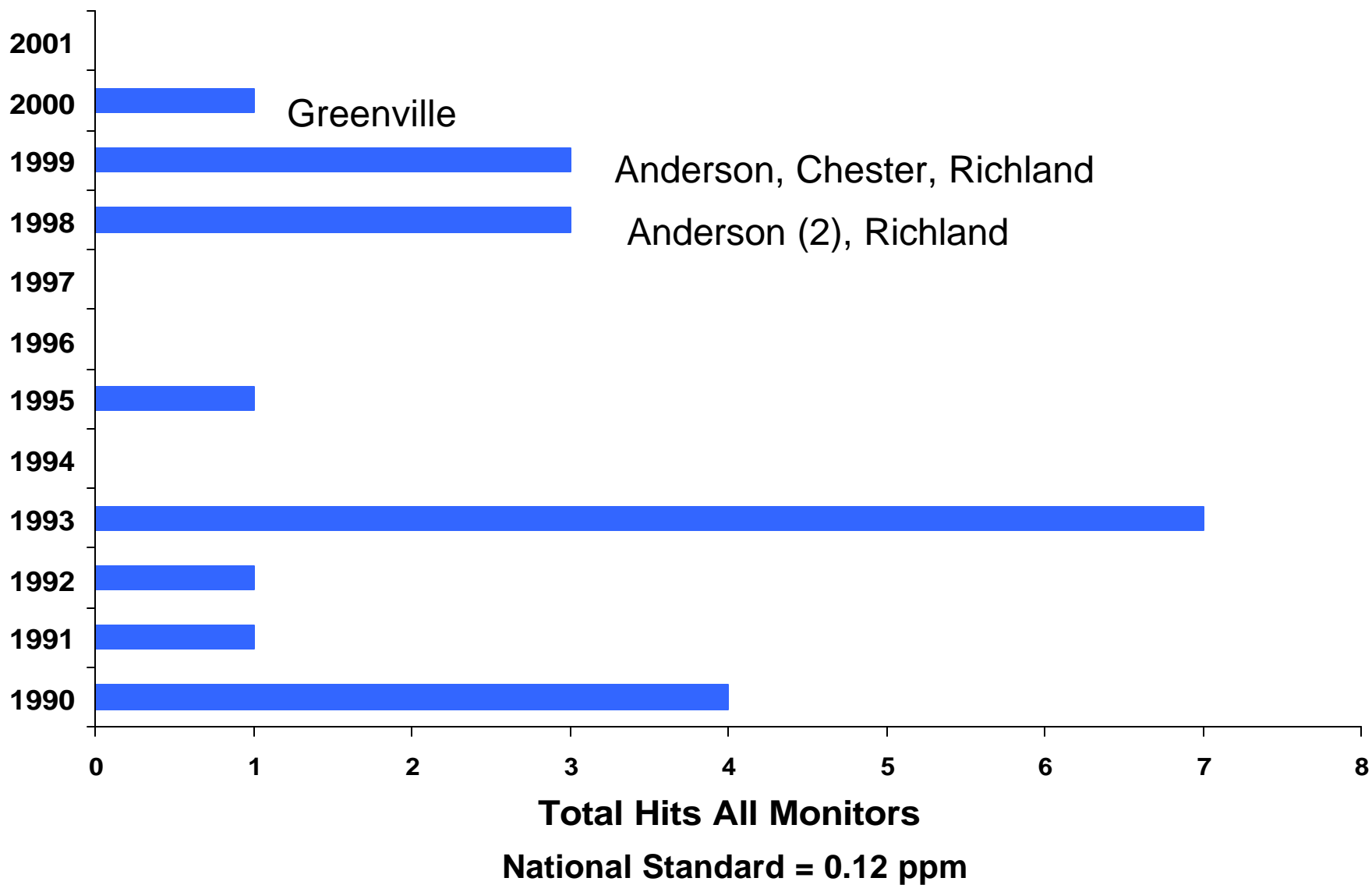
***Jim Joy, Chief
Bureau of Air Quality***

SC air quality status...



...attainment

Total Hits for 1-Hour Ozone Standard 1990 - 2001



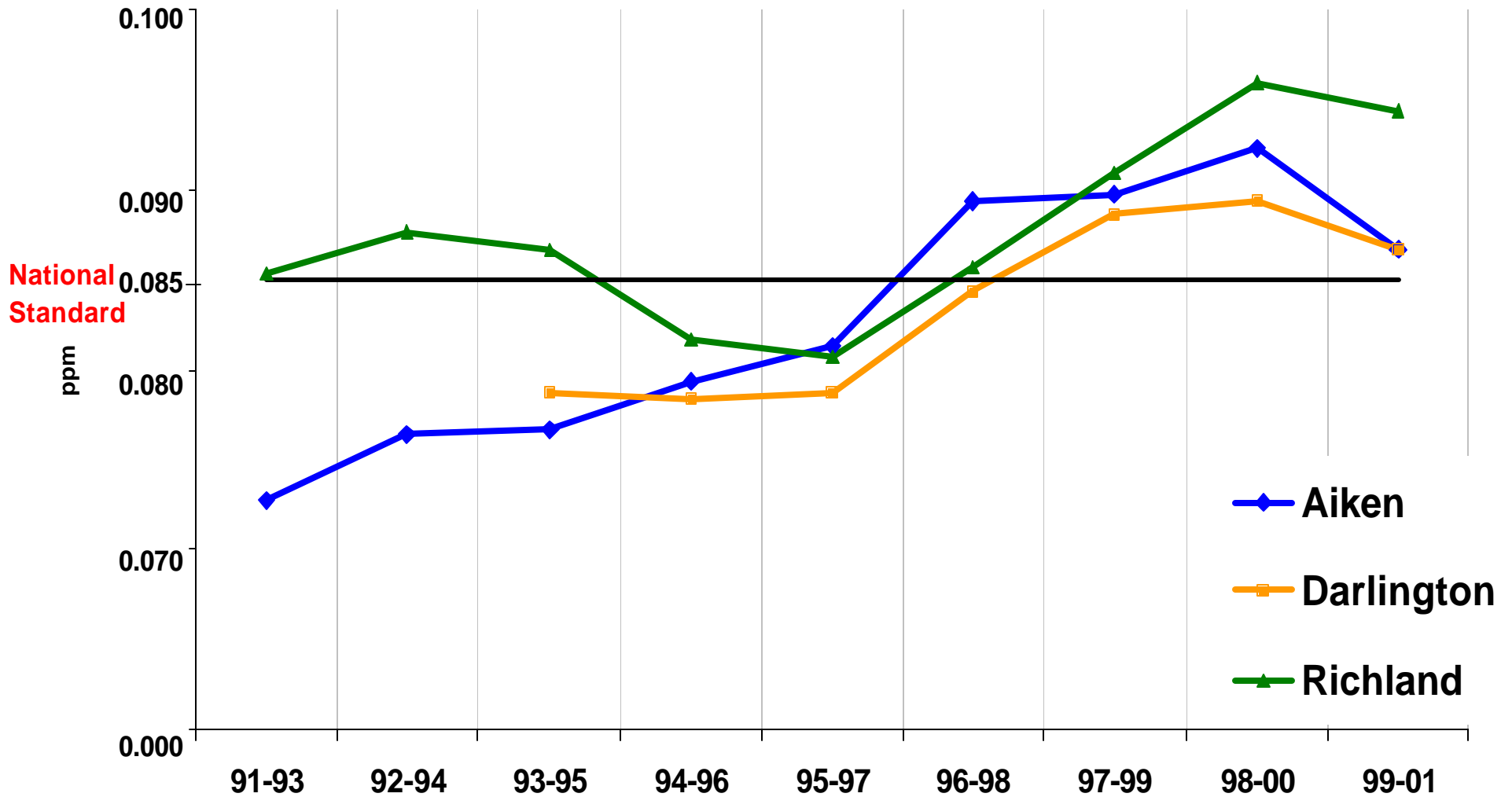
10 Year Trend of 8-hr Ozone Values

County	Monitoring Site	1991 4th 8-hr Average	1992 4th 8-hr Average	1993 4th 8-hr Average	1994 4th 8-hr Average	1995 4th 8-hr Average	1996 4th 8-hr Average	1997 4th 8-hr Average	1998 4th 8-hr Average	1999 4th 8-hr Average	2000 4th 8-hr Average	2001 4th 8-hr Average
Abbeville	Due West	0.069	0.081	0.076	0.081	0.082	0.071	0.078	0.091	0.091	0.085	0.082
Aiken	Jackson	0.068	0.073	0.077	0.079	0.074	0.085	0.085	0.098	0.086	0.093	0.081
Anderson	Powdersville	0.074	0.076	0.090	0.087	0.093	0.086	0.086	0.102	0.099	0.084	0.088
Barnwell	Barnwell	0.084	0.081	0.078	0.079	0.068	0.079	0.084	0.095	0.088	0.090	0.075
Berkeley	Bushy Park	0.072	0.068	0.076	0.074	0.066	0.076	0.073	0.083	0.081	0.080	0.072
Charleston	Army Reserve	0.071	0.073	0.078	0.076	0.070	0.070	0.061	0.081	0.084	0.083	0.068
Charleston	Cape Romain	0.059	0.071	0.068	0.066	0.075	0.071	0.082	0.076	0.082	0.076	0.072
Cherokee	Cowpens	0.077	0.085	0.082	0.082	0.084	0.080	0.090	0.096	0.094	0.088	0.080
Chester	Chester	0.069	0.079	0.085	0.078	0.093	0.080	0.089	0.093	0.094	0.078	0.082
Colleton	Ashton	0.067	0.075	0.077	0.075	0.072	0.075	0.078	0.087	0.083	0.080	0.078
Darlington	Pee Dee			0.080	0.084	0.072	0.079	0.085	0.089	0.092	0.087	0.081
Edgefield	Trenton	0.068	0.069	0.085	0.074	0.076	0.075	0.078	0.091	0.087	0.079	0.078
Oconee	Long Creek	0.070	0.072	0.082	0.081	0.078	0.073	0.079	0.093	0.087	0.080	0.079
Pickens	Clemson	0.077	0.079	0.092	0.073	0.084	0.087	0.080	0.096	0.095	0.081	0.076
Richland	Sandhill	0.078	0.084	0.094	0.085	0.081	0.079	0.082	0.096	0.095	0.097	0.091
Richland	Parklane	0.074	0.070	0.089	0.082	0.080	0.082	0.088	0.098	0.094	0.096	0.082
Richland	Cong. Swamp	0.059	0.066	0.062	0.064	0.076	0.073	0.065	0.081	0.081	0.074	0.076
Spartanburg	N. Spartan. FD	0.084	0.075	0.081	0.083	0.086	0.086	0.088	0.097	0.101	0.089	0.090
Union	Delta	0.070	0.075	0.079	0.080	0.083	0.079	0.081	0.087	0.085	0.079	0.079
Williamsburg	Indiantown	0.077	0.084	0.082	0.072	0.071	0.070	0.071	0.079	0.076	0.077	0.067
York	York	0.082	0.076	0.100	0.085	0.087	0.079	0.081	0.087	0.092	0.076	0.080
Based upon Unvalidated Data through October 1, 2001												

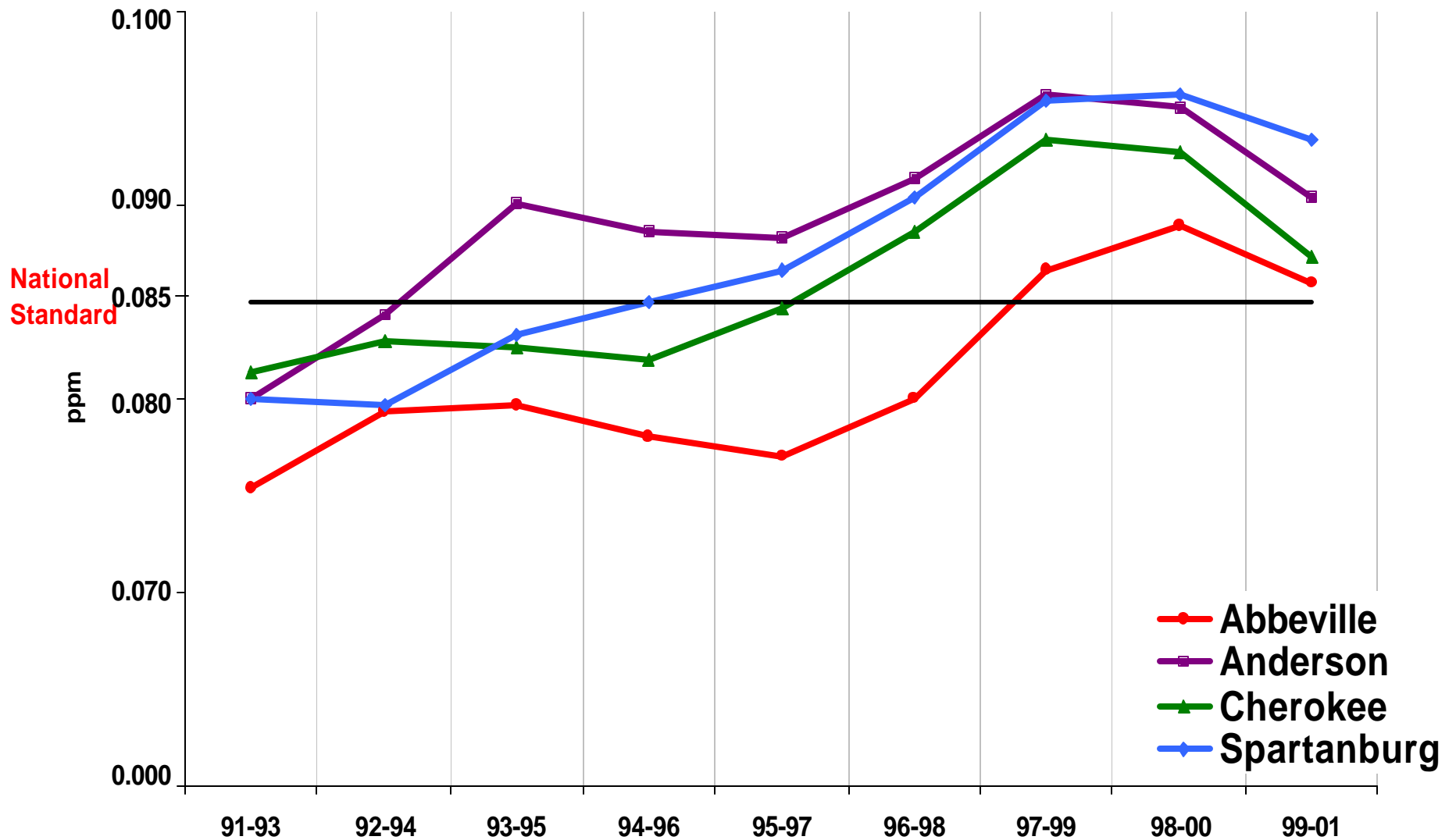
Current 3-year Averages for 8-hr Ozone

County	Monitoring Site	1999 4th 8-hr Average	2000 4th 8-hr Average	2001 4th 8-hr Average	Current 3 Year Average
Abbeville	Due West	0.091	0.085	0.082	0.086
Aiken	Jackson	0.086	0.093	0.081	0.086
Anderson	Powdersville	0.099	0.084	0.088	0.090
Barnwell	Barnwell	0.088	0.090	0.075	0.084
Berkeley	Bushy Park	0.081	0.080	0.072	0.077
Charleston	Army Reserve	0.084	0.083	0.068	0.078
Charleston	Cape Romain	0.082	0.076	0.072	0.076
Cherokee	Cowpens	0.094	0.088	0.080	0.087
Chester	Chester	0.094	0.078	0.082	0.084
Colleton	Ashton	0.083	0.080	0.078	0.080
Darlington	Pee Dee	0.092	0.087	0.081	0.086
Edgefield	Trenton	0.087	0.079	0.078	0.081
Oconee	Long Creek	0.087	0.080	0.079	0.082
Pickens	Clemson	0.095	0.081	0.076	0.084
Richland	Sandhill	0.095	0.097	0.091	0.094
Richland	Parklane	0.094	0.096	0.082	0.090
Richland	Cong. Swamp	0.081	0.074	0.076	0.077
Spartanburg	N. Spartan. FD	0.101	0.089	0.090	0.093
Union	Delta	0.085	0.079	0.079	0.081
Williamsburg	Indiantown	0.076	0.077	0.067	0.073
York	York	0.092	0.076	0.080	0.082
Based upon Unvalidated Data through October 1, 2001					

Midlands 3-Year Ozone Averages Fourth Maximum Highest Value 8-Hour Average

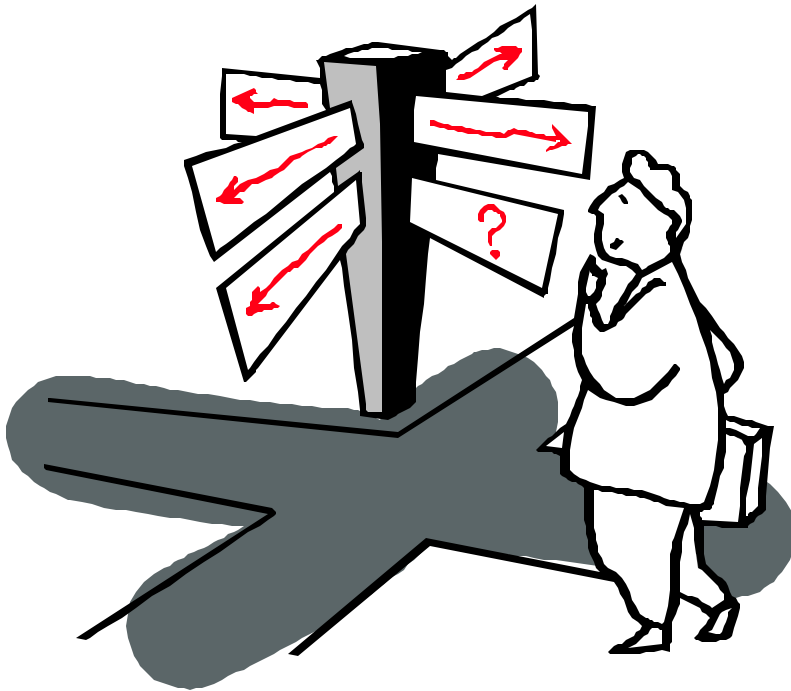


Upstate 3-Year Ozone Averages Fourth Maximum Highest Value 8-Hour Average



8-Hour Ozone Planning

Should we wait and see
or should we be
proactive?



From 1997 - 2000, we heard...

“What can we do now to keep from going into non-attainment?”



– 7/14/00 Required to Submit Governor's Recommendations on 8-hour Ozone Non-Attainment Boundaries

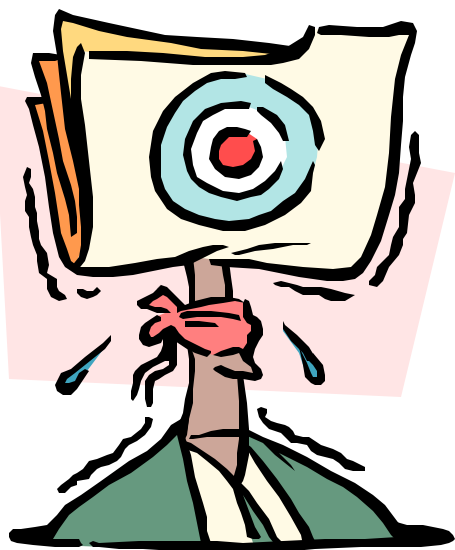
In 2001, we heard:

“This may be premature.” SCMA

“Urge you to delay.” CEED

“Wait for EPA guidance.” Company XYZ

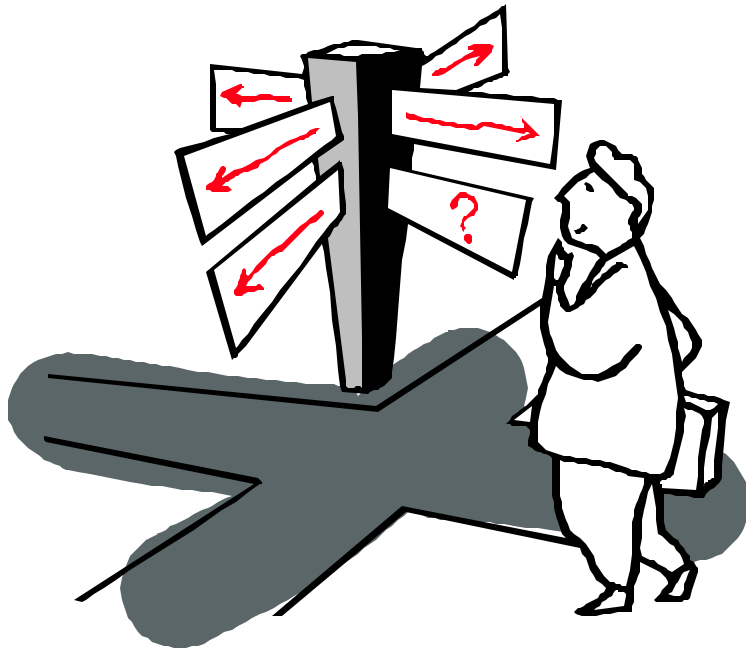
“Uncertainty.” SC Chamber of Commerce



, July 27, 2001 Ozone
Notice of Drafting

8-Hour Ozone Planning

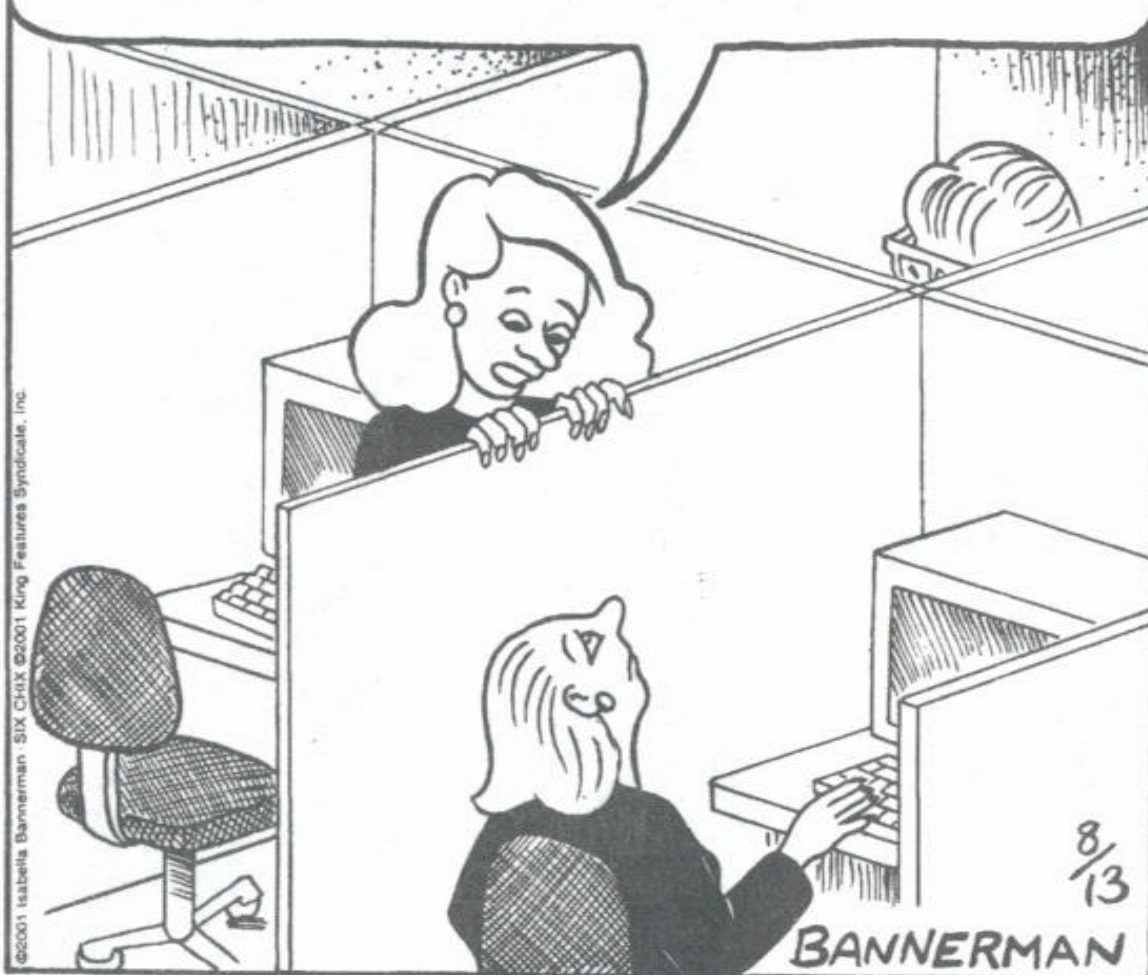
Should we wait and see or should we be proactive?

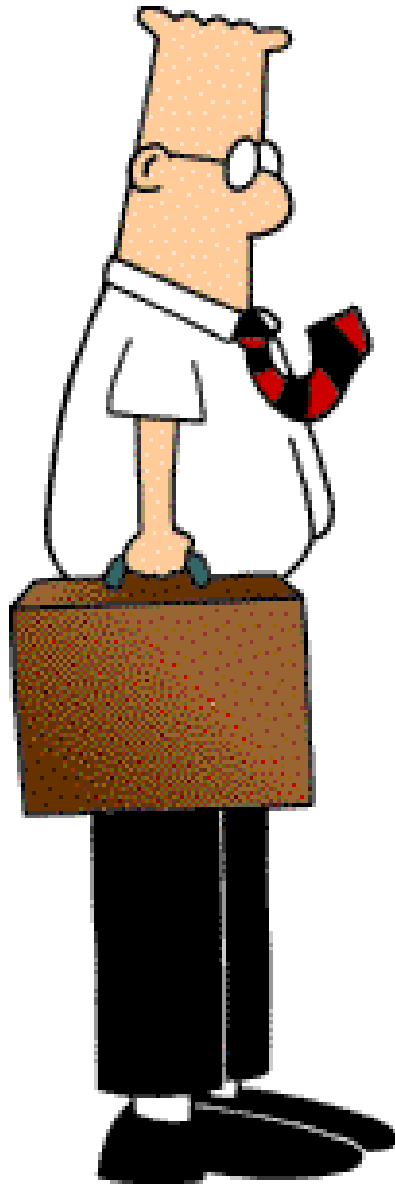


, Still feel strongly that we should be proactive

, Continuing to research options

I DON'T WANT TO
"THINK OUTSIDE THE BOX."
I JUST WANT A BIGGER BOX.





**“Change is
Good
You Go First”**

- Dilbert

Ozone Strategies – Next Steps

- Modeling Project
- Partnerships
- Regional Efforts

Ozone Modeling Project

- Looking at an event during May 16-23, 1998
- Target completion date December 2001
- Completion of this project will give us a base year and a future year (2010)
- To be used in developing strategies for complying with the 8-hr ozone standard
- Establishing technical and policy workgroups to help with strategy development
- Talking with NC about including SC in their 1995 and 1997 ozone episodes

Partnerships

- Develop ozone modeling partnerships with other state, industry, and public stakeholders
- Continue to add and enhance partnerships (transportation planning, smart growth, voluntary reductions, Clean Air Partnership, state agency emissions reduction strategy)

Regional Efforts

- SESARM / METRO4
- SAMI
- VISTAS
- Southern Air Principles

SESARM - METRO 4



- 1998 - DHEC contracted to provide services of Executive Director (at no cost to SC)
- Organization has decided to move overall operations to independent setting
- Establishing budget to operate independently
- Searching for Executive Director and location
- Refining organizational responsibilities and goals

DHEC - Setting An Example

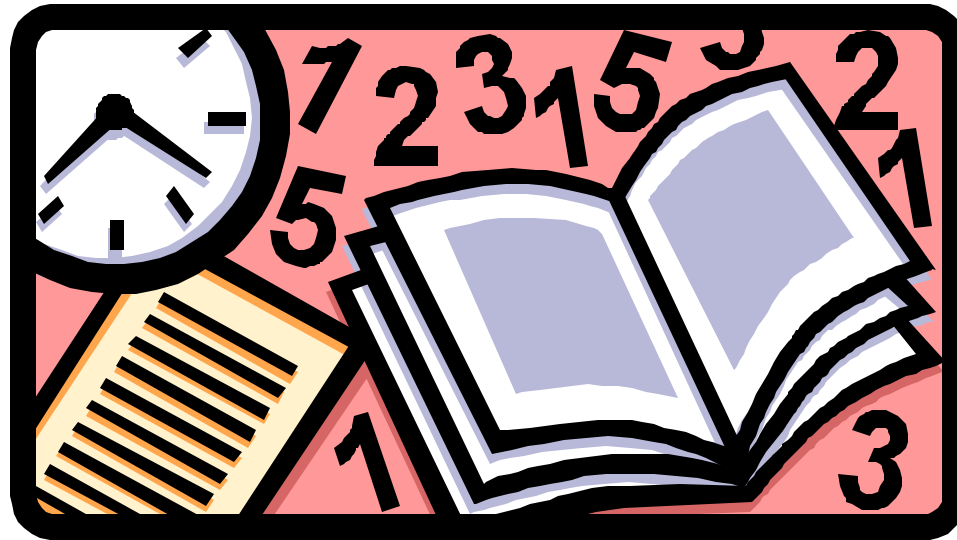
- 3 gas/electric hybrids
- 128 alternatively fueled vehicles
 - 26 Compressed Natural Gas Bi-fuel Trucks
 - 102 E-85 (Ethanol) Vehicles
- Installing E-85 pump at Central Office
- Participated in providing federal SEP funds to Catawba COG to establish E-85 infrastructure for public access
- Working with other areas to develop necessary infrastructure to support use of AFVs

Alternative Fuels - Private Efforts

- United Energy Distributors
- Opened in Aiken on October 18, 2001
- 1st of its kind in the US
- Open to the public
- Refueling station
 - E-85
 - Biodiesel
 - Clean diesel
 - Unleaded gas



Current Regulatory Activities



Recent Final Regulations

- Credible Evidence (R.61-62.1)
 - Final rule was published in the SC State Register on July 27, 2001
- Federal Compliance Revisions (General revision to all of R.61-62 to maintain conformity with federal requirements - MACTs, NSPS, PSD)
 - Final rule expected to be published in the SC State Register on October 26, 2001

EPA Regulation Approval Status

- Received EPA Approval
 - Hospital/Medical/Infectious Waste Incinerators
 - Final rule published in the Federal Register on Sept. 21, 2001, effective Oct. 22, 2001
- Submitted to EPA for Approval
 - Cherokee County Maintenance Plan
 - NO_x SIP Call (for parallel processing)
 - Credible Evidence

NOx SIP Call Regulation

- Board Final Approval on June 14, 2001
- Submitted to State Legislature for Approval
- Regulation effective upon publication in SC State Register by mid-2002 (reductions in place by May 31, 2004)

Current Regulation Development

- Waste Combustion and Reduction (Std 3)
 - 2nd Notice of Drafting published on April 27, 2001
- Commercial/Industrial Solid Waste Incinerators & Municipal Waste Combustors
 - Notice of Drafting published on April 27, 2001
- Asbestos fees
 - Notice of Drafting published on July 27, 2001
 - Board initial approval October 11, 2001
 - Final approval expected December 13, 2001



“MACT Hammer” – 112(j)

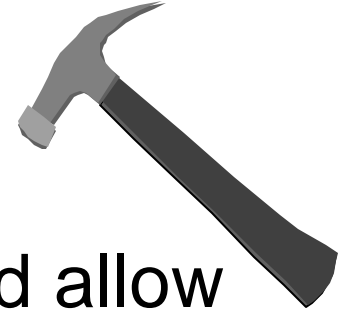
- 112(j) applies if EPA fails to promulgate a MACT standard within 18 months of its statutory deadline
- Last MACT deadline was November 15, 2000
- All 112(j) applications (Title V significant modifications) due to states **May 15, 2002**
- States must make case-by-case MACT determinations for all existing major HAP sources not covered by a MACT
 - One facility can be subject to multiple MACT standards

Current Status of MACT Standards

- 60 MACT standards promulgated (including 10 delisted source categories) over 10 years
- 20 MACT standards proposed but not yet promulgated
- 33 MACT standards neither proposed nor promulgated
- On average it takes EPA a year to promulgate a MACT standard after it is first proposed
- Hammer very likely to fall!

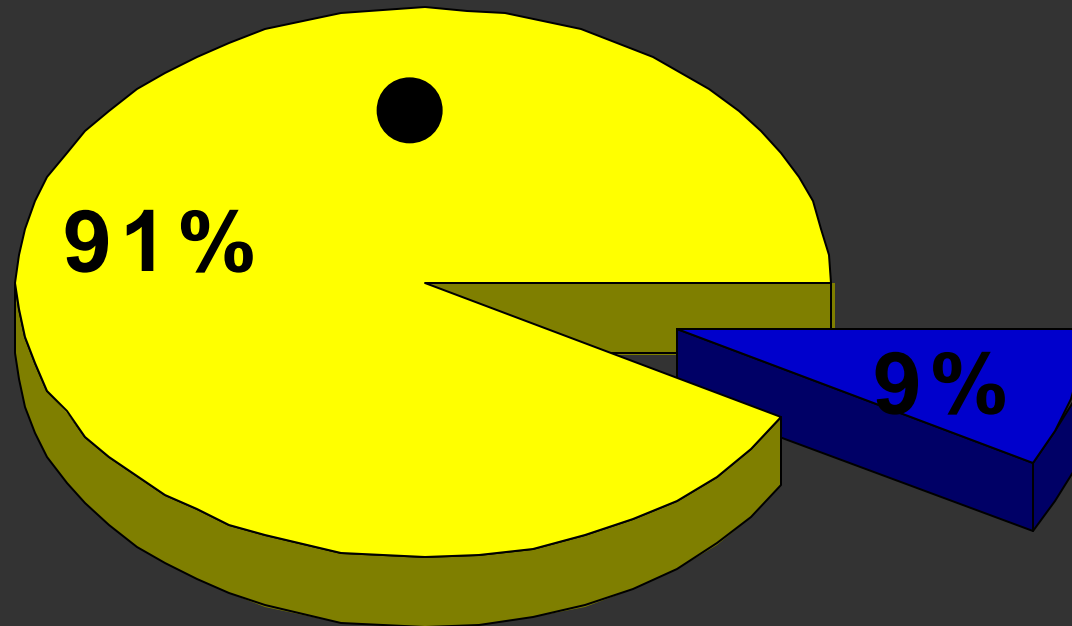


SC Efforts for 112(j)



- EPA has **proposed** revisions that would allow sources to notify states by May 15, 2002, that they are subject to MACT rather than submit complete permit applications by this date
- complete permit application would be due Nov. 15, 2002
- Department expects to publish a Notice of Drafting in November to start the process to incorporate the changes but not finalize until EPA regulations are final

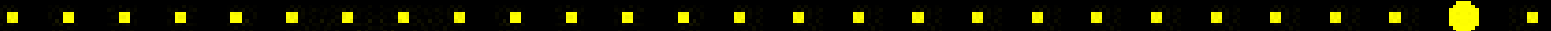
Initial Title V Permit Status as of October 1, 2001



Issued



Not Issued



TITLE V PERMIT PROGRESS

AS OF OCTOBER 1, 2001






PERMIT REVIEW PROCESS	INITIAL TITLE V	NEW TITLE V	RENEWAL NEW TITLE V	TOTAL 
APPLICATIONS RECEIVED	300	64	2	366
DRAFTED	294	43	0	337
SENT TO FACILITY	291	43	0	334
PUBLIC NOTICED	284	43	0	327
ISSUED PERMITS	273	42	0	315

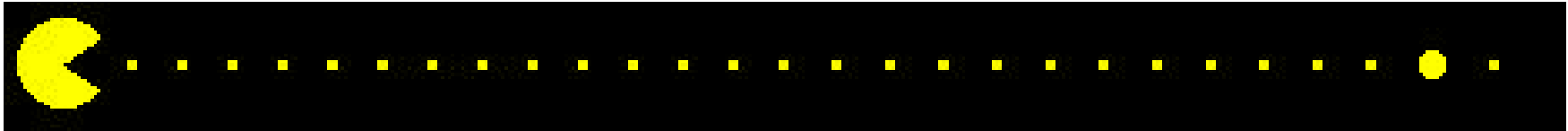
SC PERMIT STATUS FOR CM SOURCES





OCTOBER 1, 2000 TO SEPTEMBER 30, 2001



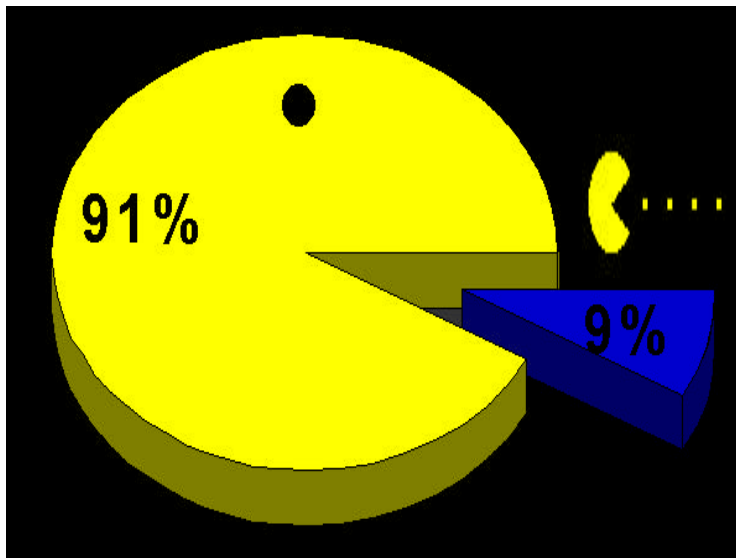
PERMIT APPLICATION TYPE	# APPLICATIONS RECEIVED	# PERMITS ISSUED
 INITIAL CONDITIONAL MAJOR	241	240
 NEW CONDITIONAL MAJOR	76	41
 TOTAL	317	281

SC PERMIT STATUS FOR CONSTRUCTION & OPERATING PERMITS OCTOBER 1, 2000 TO SEPTEMBER 30, 2001



PERMIT APPLICATION TYPE	# APPLICATIONS RECEIVED	# DECISIONS MADE	# PERMITS ISSUED	# PERMITS ISSUED W/IN TIMEFRAME	% DECISIONS MADE W/IN TIMEFRAME
 CONSTRUCTION	2096	1700	1310	1622	95.41%
 OPERATING	475	254	250	222	87.40%
 PSD REVIEW	8	8	8	8	100%
 TOTAL	2579	1962	1568	1852	94.39%

SOUTH CAROLINA PROJECTED TITLE V FORECAST



OCTOBER 1, 2001

INITIAL TITLE V ISSUED



DECEMBER 30, 2001

DRAFTED

INITIAL TITLE V

Complying with Your Title V Permit

Title V emphasizes that the responsibility is on *you* to:

- READ and understand your permit
- REVIEW the requirements frequently
- MONITOR your status on a regular basis
- KEEP records as required
- REPORT your compliance status (e.g., Annual Compliance Certification, to both DHEC and the EPA

Administrative Law Judge Division

- Anyone with standing can request a contested case hearing to appeal final permit decision
- Must be requested within 15 days following date of permit issuance and publication
 - Submitted to Clerk of the Board, SCDHEC
- Filing fee of \$70.00
 - Submitted to the Administrative Law Judge Division

Environmental Facility Information System

- Software program designed to support environmental activities
- Plan is for all permits to be developed and tracked within this system
- More accurate permit tracking system
- BAQ currently generating information for General Permits

Summary of Violations* at Title V Facilities in S.C.

Addressed During Calendar year 2000 and Year To Date 2001

	2000	2001 YTD
Number of Different Title V Facilities Where Violations Occurred	57	88
Number of Notice of Violations Issued	61	29
Number of Consent or Administrative Orders Issued	24	9

***Not all referrals have been evaluated.**

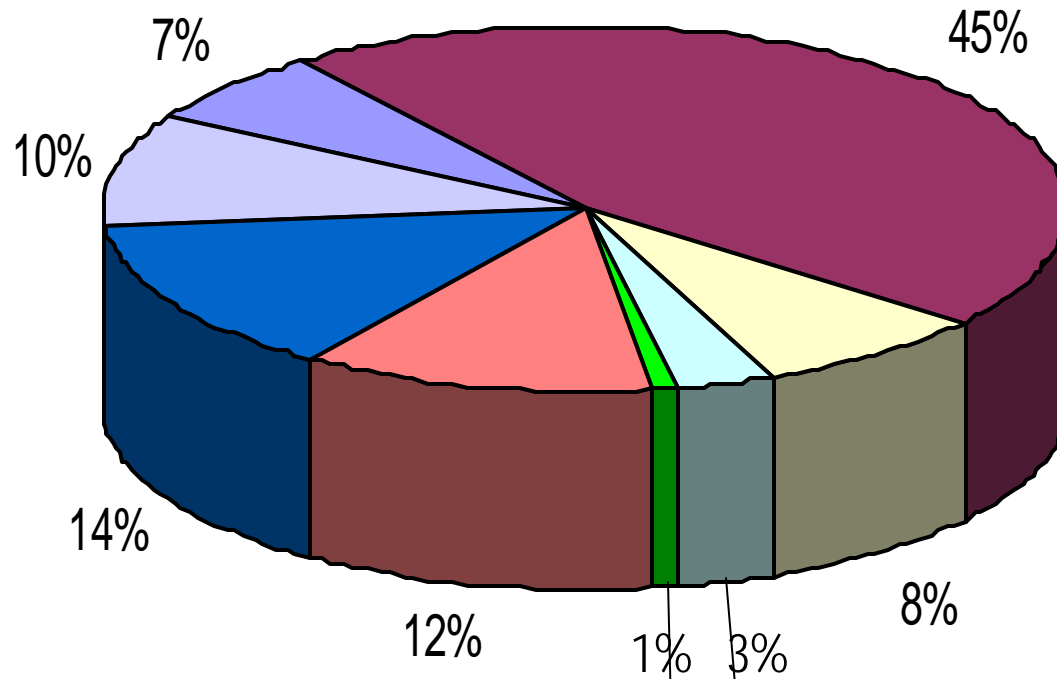
Summary of Compliance Activities

Addressed During Fiscal Year 2000 and Fiscal Year 2001

	2000	2001
Inspections/ Investigations With Violations Noted	648	707
Notice of Violations Issued		
Central Office	291	236
EQC District Offices (Open Burning)	229	244
Total	520	480
Consent Orders Issued	96	122
Total Civil Penalties Levied	\$406,500	\$860,890
Average Civil Penalty Levied	\$4,234	\$7,056

***Not all referrals have been evaluated.**

Fiscal 2000 - Summary of Violations



■ Permitting Requirements 24

■ Recordkeeping / Reporting 29

■ PSD / LAER 3

■ Asbestos 50

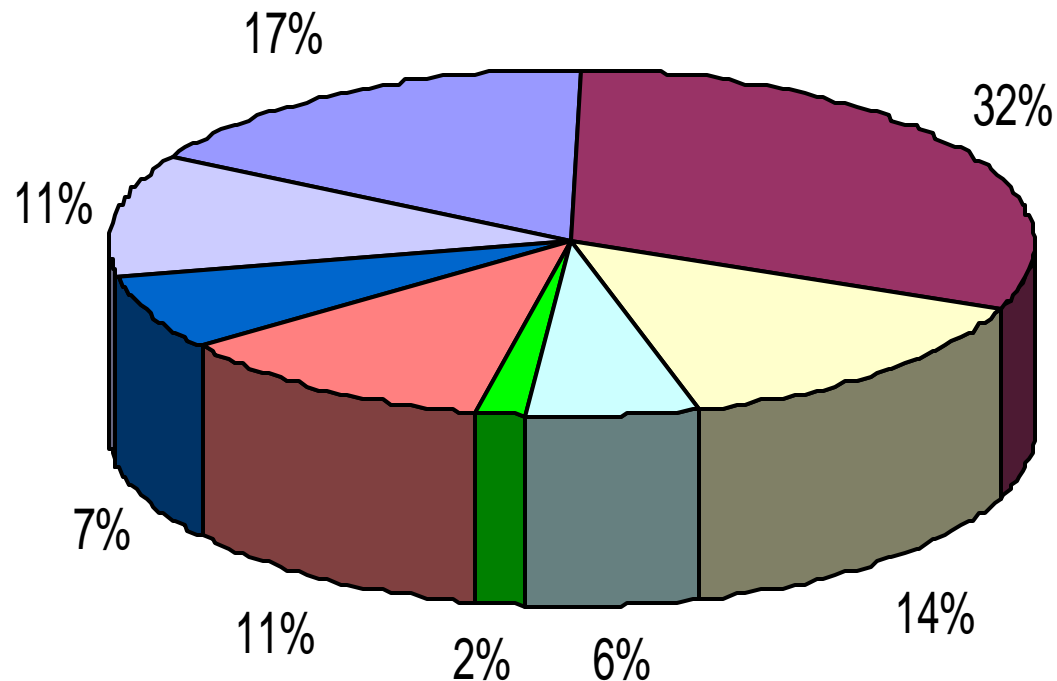
■ Permit Requirements 164

■ TV Certification 12

■ Source Testing / Opacity / Emissions 43

■ Open Burning 35

Fiscal 2001- Summary of Violations



■ Permitting Requirements 50

■ Recordkeeping / Reporting 43

■ PSD / LAER 5

■ Asbestos 21

■ Permit Requirements 92

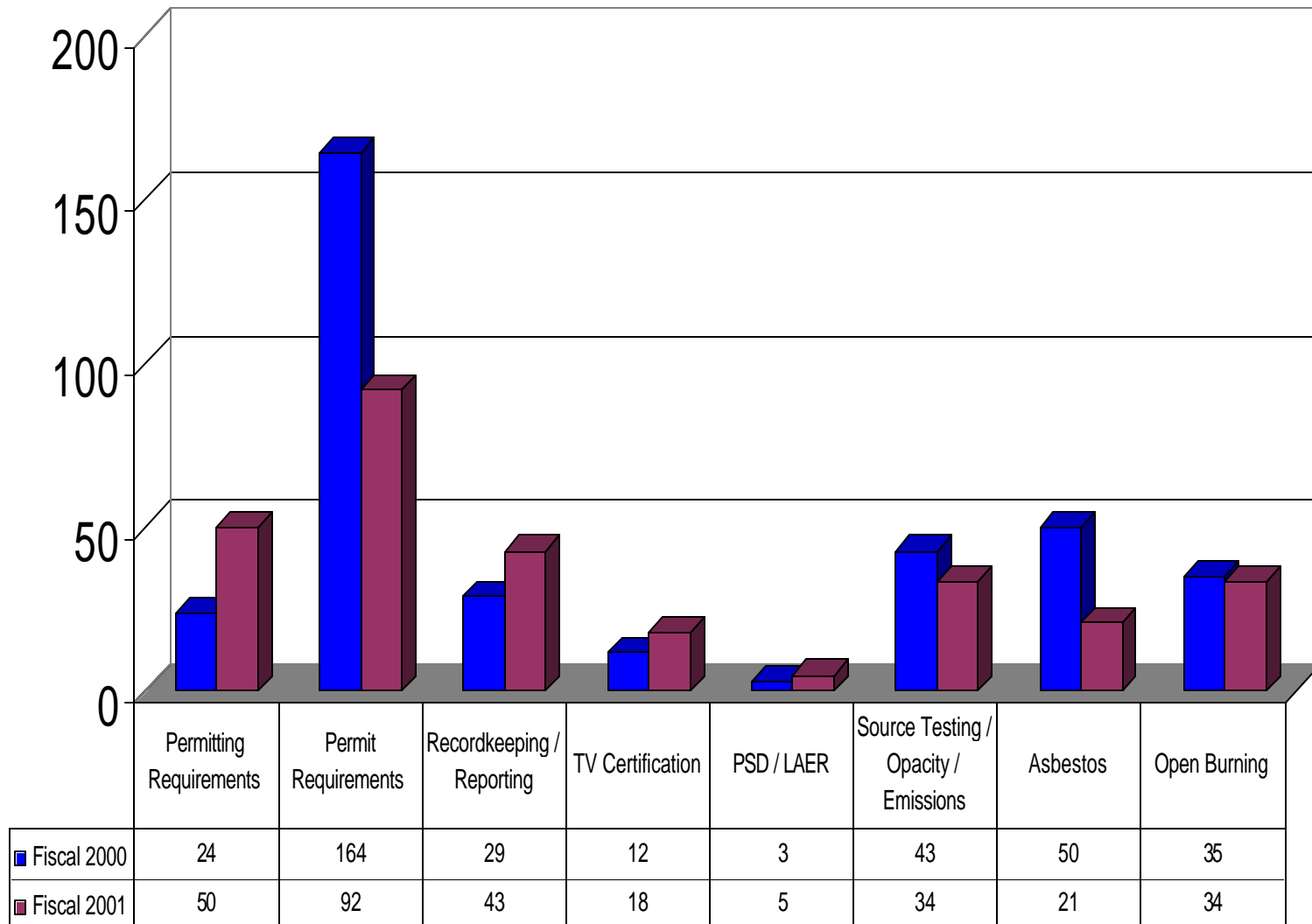
■ TV Certification 18

■ Source Testing / Opacity / Emissions 34

■ Open Burning 34

Comparison of Violation Types

Fiscal 2000 vs Fiscal 2001



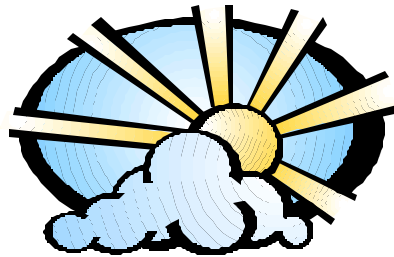
Financial Woes

- State Money
 - 4% cut by June 30, 2002
 - 10% cut July 1, 2002 – June 30, 2003

South Carolina Air Quality Information

Bureau of Air Quality
(803) 898-4123

<http://www.scdhec.net/baq>



Bureau of Air Quality